

Relationship Between Crystal Lattice Parameter of Austenite and Start of Martensite Transformation in Iron-Carbon Alloys, by V. I. Arkharov.

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Brutcher Tr 2696

12,853

Scientific - Min/Metals

\$3.30

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ABC Tr 3081

Sci - Phys

53, 751

Nov 57

16 371

US-14

LIKHTMAN V. I., REBINDER P. A.

The influence of active lubricants on the compression and sintering processes of powdered metals

Dokl. Akad. Nauk SSSR, 70, No. 5, 851-853 (1950)

RJ.23. \$ 2.40 - English

E u r a t o m

Henry Bratcher
TR 2614

The Heat of the Reversible Transition of
Butyric Acid Hydroperoxide Into Various
States, by Z. K. Maykus, V. N. Cherednichenko,
N. M. Emanuel', 7 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
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Sci Tr Center
RT-2289

Scientific - Chemistry
CTS 70/Jul 55

25,231

Urazovskii, S. S. and Sidorov, I. A.
THE TEMPERATURE DEPENDENCE OF THE HEAT
CAPACITY OF LIQUIDS AND THE NATURE OF
PHASE TRANSITIONS OF THE SECOND KIND [Ob
Osobennostyakh v Temperaturnoi Zavisimosti Teplem-
nosti Zhidkostei i o Priorode Fazovykh Prevrashchenii
Vtorogo Roda]. 21 Nov 58 [11]p. 8 refs.
Order from OTS or SLA \$1.60 61-16707

Trans. of Akademiya Nauk SSSR. Doklady, 1950,
v. 70, no. 5, p. 859-862.

DESCRIPTORS: *Liquids, *Phase transitions, Temper-
ature, Heat, Measurement, Thermodynamics,
Colorimeters.

The points of phase transitions of crystalline-polymor-
phic modifications coincided with the temperatures of
their phase transitions of the second order in the under-
(Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-16707

I. Urazovskii, S. S.
II. Sidorov, I. A.

185394

Office of Technical Services

Gorbunova, L.I.
RESULTS OF A COMPARATIVE INVESTIGATION OF
GLAUCONITES OF DIFFERENT FACIES. 9 p.
MTWL: 624.

Order from OTS or ETC \$1.55 61-17226

Trans. of Academiya Nauk SSSR (Doklady) 1950,
v. 70, no. 5, p. 867-870.

DESCRIPTORS: Sedimentation, Rock, *Paleoecology,
*Silicates.

61-17226

- I. Gorbunova, L.I.
- II. MTWL-624
- III. Stichting Moeilijk
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DAN - LXX 6

48

1043

Composition of the Quality of Very Weak
Acids

A.I. Skatunhteyn

Goldenblat, I.I.
OVER EEN VRAAGSTUK BETREFFENDE DE MECHANICA VAN EINDIGE DEFORMATIES VAN VASTE STOFFEN (On a problem of the mechanics of finite deformations of continuous media). 10 p. 2 refs.
MTWL: 453 (Text in Dutch).
Order from OTS or ETC \$1.55 61-17042

Trans. of Akademiya Nauk SSSR, Doklady, 1950, v. 70, no. 6, p. 973-976.

DESCRIPTORS: *Solids, *Stresses, *Deformation, Mechanical properties.

61-17042

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Vol 76, # 6, pp 989-990 (1950)

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of Fluorescein Solutions

M.D. Galanin

Sci. Tr. RT 457

X-ray 2 266/NR4 322

115T68

Single-stage Quartz Replicas for Electron-
Microscopic Investigations, by I. Y.
Zemlyanova, Yu. M. Kushnyr and A. I. Frymer,
6 pp.

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1950, pp 991-993.

Sci Museum No 51/2756

Scientific - Electrons

Dynamic Character of a Focus From Seismic
Observations, by V. I. Keilis-Borok. (unedited)

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXX,
No 6, 1950, pp 995-998.

Univ of Wisconsin
(MSF)

Sci - Geophys
Apr 60

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NEW DATA ON Night-day Radiation in the E, 100-
11,000 Å Region, by V. I. Evasovskiy, 4 pp.

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No 6, 1950, pp 999-1000.

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Baltimore, Md. *Common*

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Scientific - Geophysics

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11,080

Mar 54 CTS

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Particles of Synthetic Latexes, by S.S.
Voyutskii and Yu.A.Smetkin.
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no.6, pp. 1013-1016.
SLA-WT-64-20365

Mat/Metal
Aug 66

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The Hydrogen Bond in the Hydroperoxide of
Propionic Acid and Its Kinetic Effect, by
B. S. Neporent, 8 pp.

RUSSIAN, thrice-mo per, Dok Ak. Nauk SSSR,
Vol LXX, No 6, 1950, pp 1025-1028.

Sci Tr Center
RT-2290
(GPP) XTS TT-63-20656

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Scientific - Chemistry Nov 55 CTS/DEX

Shatenshtein, A. I.
COMPARISON DE LA FORCE DES ACIDES TRÈS
FAIBLES, tr. by Mme. Bourrelli. 5 July 60 [8]p.
6 refs. CEA Trans. no. R 967 (text in French).
Order from OTS or SLA \$1.10 61-23782

Trans. in French of Akad[emiya] Nauk SSSR. Dokl[ady]
1950, v. 70, no. 6, p. 1029-1031.

DESCRIPTORS: *Acids, *Metalorganic compounds,
*Deuterated compounds, Ammonia, Exchange re-
actions.

In heavy water and in deuterated alcohol, the hydrogen
of metalorganic compounds, bound to the carbon, is
exchanged with difficulty and usually only after pro-
longed heating. Results of experiments indicate that
the velocity of the exchange reaction increases dis-
tinctly in deuterated liquid ammonia.

(Chemistry--Physical, TT, v. 6, no. 7)

61-23782

- I. Shatenshtein, A. I.
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l'Énergie Atomique
(France)

Office of Technical Services

RAMAN Spectra of Deuteroacetylacetone and
Deuteroacetoacetic Ester, by D. A. Shigorin,
Ya. K. Myrkin. UDCI

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Sci - Chem
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Further Investigation of the Products of Reduction
of Carbon Dioxide by Chloroplasts, by E. A. Bol-
chenko.

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ABC Tr 1224

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Scientific - Chemistry

The Influence of Surface-Active Additives on Cement-
Water Reactions, by S. V. Shestoporov, T. Yu.
Lyubimova, F. M. Ivanov, 6 pp.

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Dependence of Strength Upon the Loading Rate in Brittle
Rupture, by G. M. Bartenev, 8 pp

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pp. 23-26

NLL 5828.4F

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Scientific - Physics

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7017

Luminescence and Photoconductivity of Cadmium Sulfide
by D. V. Gurevich, N. A. Tolstoy and P. P. Feofilov,
8 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXI, No 1, 1950
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Scientific - Chemistry

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Transitional Effect for Positive
Excess of Slave Members

GB Zhdanov, A.A. Kheydarov

DAN-LXXI-1 (50)

p. 37

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V.A. Ponomarev

Yearly Variation of the Potential
Gradient of Atmospheric Electricity

Determination of Current Velocities and Density Distribution in a Cross-Section of an Infinitely Long Channel, as Related to the Action of the Wind and of Side-Friction in the Coriolis-Force Field, by V. B. Shtokman,

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Scientific - Physics

On the Maximum Heat ex Flux on Boiling Water Under
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No 1, 1950, pp 53-55.

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Sci - /Engineering
Sep 56 CTE/dex

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An Investigation of the System $\text{CuO} - \text{Fe}_2\text{O}_3$, by N. A. Toropov, and A. I. Borisenko.

Full translation.

RUSSIAN, no par, Dok. Ak. Nauk SSSR, Vol LXXI, No 1, 1950, pp 69-71.

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Scientific - Chemistry, $\text{CuO} - \text{Fe}_2\text{O}_3$

Nov 52 CTS/DEX

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No. 1, pp. 73-75; 3 figures, 1450 words.

Activation of Metal Surfaces Preparatory to
Being Electroplated.

Butcher trans, Order No. 254(), \$ 2.90.

Investigation of Materials with Elastic, Plastic
and Viscous Properties, P. A. Rebinder and E. E. ' *by*
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INFLUENCE OF SOME ELEMENTS UPON THE FORMATION OF GLOBULAR
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The N. V. Smirnov Theorem Concerning the
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AEC Tr 982

Scientific - Physics

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(DC-2944).

The Effect of Ultrasound Upon the Phenomenon
of Orthotropism in Organic Substances, by A.
P. Kapustin, 3 pp.

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Vol LXXI, No 2, 1950, pp 273, 274.

JPRS-1780-D

Sci - Phys, Crystallization
Jul 59

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Evaporation From the Surface of a Soil With a
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Chebotarev,

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UKSM Ref No 3040

May 58

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Piezoelectric Properties of Wood, by V. A.
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Sci Museum Lib No 50/3857 - London

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LEHMAN, M. H.
POSTKOVA, A. M.

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pp. 299-301; 4 figures. 1000 words.

Electron-microscopic investigation of the Austenite
Decomposition in the Pearlite-Troostite Range.

Intober Trans. Order No. 2602, \$2.00.

On the Behavior of the Glass Electrode in the Acid
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SLA 65-1117
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" Isotopic Exchange of Iodine
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Heyman & Protenko

Proj 5487

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DAN, 71, No 2, 1950, P. 361-63

"Corrosion of Metals by Cracking,
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CD 7025.4

SR 7 June 1950

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Proj 5273

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SR 8 May 1950

Changes in the Absorption of ZnS-Cu, Co Phosphor
During Excitation, by V. V. Antonov-Romanovskiy and
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RUSSIAN, per Dok Ak Nauk SSSR, Vol LXXI, No 3, 1950
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Scientific - Chemistry

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Polarizability Theory and Optical Activity,
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RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXI,
No 3, 1950, pp 447-450.

INSIQC-T2104

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Use of Ultrasonic Waves to Produce Orientation in
Crystalline ^{ub}Substances, by A. Rapustin.

^KRUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXI, No 3, 1950,
pp 451-452.

Brutcher No 3066 \$1.75

Sci Phys

Jun 53

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Vol 71, # 3, pp 453-456 (1957)

The Absolute Yield of Fluorescence of Solutions
of Anthracene + Some of its Derivatives

F. I. Palavikov

See 71.6 + RT 464

May 316/WRW 337
(April '51 listing)

165T86

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Vol 71, #3, pp 457-463 (1950)

Phosphorescence of Benzal Hydrocarbons at
Temperature of Liquid Oxygen

B.H. Pyatnitskiy

In process -

Kong, Jr. / NCH

165T87

DAS

Vol 71 # 3, pp 469-472 (1950)

Determ. of Eng. 'Med - Discharge of Water in Any
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G. N. Petrov

proj —

ST-323(10)

SP 25.9.51

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UT # 241
ABC

Nitriding of Iron by I. R. Krichevskii, N. E.
Khozhanova, UNCLASSIFIED

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Butcher Order No 3028
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Scientific - Metallurgy

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Use of Ultrasonic Waves to Produce Orientation
in Crystalline Substances, by A. Kapustin

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1950, pp 451-452.

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Scientific - Physics

Jun 53 CTS

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Polymerization of Oleic Acid and Its
Methyl Ester in the Presence of a Molecular
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Acid, by A. V. Topchiev and T. P. Vishnyakova.
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NLL RTS 2471 (On Loan or Purchase)

Aug 65

288,817

TT-62-11746

Bagotskii, V. S. and Motov, D. L.
REVERSIBLE OXYGEN ELECTRODE BASED ON
MERCURY IN ALKALI SOLUTIONS AND THE
MECHANISM OF CATHODIC REDUCTION OF
OXYGEN

B. W. Kuvshinov, tr. 24 Jul 62, 7p 5refs

APL/JHU-TG-230-T318.

Contract N0w-62-0604-c

Order from CTS \$0.50

TT-62-11746

Trans. of Akademiya Nauk SSSR, Doklady, 1950,
v. 71, no. 3, pp. 501-504.

DESCRIPTORS: *Electrochemistry, *Oxygen, Reduc-
tion (Chemistry), Reaction Kinetics, Bases (Chemistry),
*Electrodes, *Mercury, *Polarographic analysis

(Chemistry--Physical, TT, v. 11, no. 7)

- I. Bagotskii, V. S.
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- III. APL/JHU-TG-230-T318
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Johns Hopkins Univ.,
Silver Spring, Md.
- V. Contract N0w-62-0604-c

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Precipitation of Iron and Manganese Hydroxides
in Lakes, by B. P. Krotov, 1.3 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol
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SLA R-1193

May 58

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Mashaller, G. A.
THE INFLUENCE OF FOREIGN EGG PROTEIN ON
THE DEVELOPMENT OF BIRDS. [1960] 3p. TL1144;
M2197.

Order from LC or SLA m\$1.80, ph\$1.80 61-13692

Partial trans. of Akademiya Nauk, SSSR. Doklady,
1950, v. 71, no. 3, p. 549.

142,813

(Biological Sciences--Biochemistry, TT, v. 5, no. 2)

61-13692

I. Proteins--Physiological
effects

I. Mashaller, G. A.

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Law of Approach to Saturation for Martensite, by
N. S. Akulov, K. N. Bol'shova.

RUSSIAN, Dok Ak Nauk SSSR, Vol LXXI, No 4, 1950,
pp 633-636.

Brutcher Tr 2698

Scientific - Min/Metals

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\$3.90

Effect of Nonuniform Excitation Upon Stimulation
Properties of Phosphors Sensitive to Infrared Rays, *ly*
L. I. Anikina and V. V. Antonov-Romanovskiy
8 pp.

RUSSIAN, per, Dok Ak Nauk SSSR Vol LXXI, No 4, 1950
pp 637-640

CIA/FDD/ K-1130

Scientific - Physics

CTS/DEX

7015

Vartanyan, A.T.
PHOTO CONDUCTIBILITÉ DE L'ANTHRACÈNE SOLI-
DE (Photoconductivity of Solid Anthracene). 4p.
3 refs. CNRS-VIII bis 251.
Order from OTS, ETC or CNRS \$1.10 TT-62-26694

Trans. in French of Akademiya Nauk SSSR. Doklady,
1950, v.71, no.4, p.641-642.

Another trans. is available in English from SLA as
RT-736, 3p.

NPOY TA 265/NRL 321

DESCRIPTORS: Organic compounds, Solids, *Photo-
conductivity, Films, *Anthracenes.

TT-62-26694

- I. Vartanyan, A.T.
- II. CNRS-VIII bis 251
- III. Centre National de la
Recherche Scientifique,
Paris
- IV. RT-736

(Physics--Solid State, TT, v. 11, no. 11)

Office of Technical Services
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Sveshnikov, B.Ya. and Ermolaev, V.I.
POLARISATION DE LA PHOSPHORESCENCE DES
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DE L'AIR LIQUIDE (Polarization of the Phosphorescence
of Organoluminophors at the Temperature of Liquid
Air). 8p. 10refs. CNRS-XVIII 34.
Order from OTS, ETC or CNRS \$1.10 TT-62-28864

Trans. in French of Akademiya Nauk SSSR, Doklady,
1950, v.71, no.4, p.647-650.

DESCRIPTORS: *Phosphorescence, *Organic compounds
Temperature, Air, Liquids, Polarization.

(Chemistry--Organic. TT. v. 11, no. 7)

TT-62-28864

I. Sveshnikov, B.Ya.
II. Ermolaev, V.I.
III. CNRS-XVIII 34
IV. Centre National de la Recherche
Scientifique, Paris

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European Translations Centre

Dependence of Absorption π Spectra of Alkali-Halide
Phosphor-Sublimates Activated With Thallium, Upon
Temperature, by K. V. Shalimova, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXI, No 4, 1950,
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Dep't of Chem. Sci. 10/17/50 11-7-50

Scientific - Chemistry
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7076

Yudin, M. I.
THE INFLUENCE OF FOREST BELTS ON THE
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Turbulentnyi Obmen i Optimal'naya Shirina Polos).
[Jan 62] 4p. 6 refs. PL-480 Agr.
Order from OTS \$0.50

60-21884

Trans. of Akademiya Nauk SSSR (Doklady), 1950, v. 7, no. 4, p. 655-658.

DESCRIPTORS: *Forestry, *Trees, Growth, *Wind, Velocity, Aerodynamics, Turbulent flow, Climatic factors, Plants.

Any forest belt has a double effect on air currents flowing over it: it acts simultaneously as a diffuser and as an eddy producer. For the optimal width of the belt the wind velocity after the passage through the belt, should be 0.6 of the wind velocity in the open.

60-21884

I. Yudin, M. I.
II. PL-480 Agr (60-21884)
III. National Science
Foundation,
Washington, D. C.

9099718

(Agriculture--Plant
Cultivation, TT, v. 7, no. 6)

Office of Technical Services

Study of the Products of Polymerizing
Oleic Acid, by A. V. Topchiev and T. P.
Vishnyakova.

RUSSIAN, per, Doklady Akad Nauk SSSR,
1959, Vol 71, pp 685-688.
MLL RTS 2472 (On Loan or Purchase)

Aug 65

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Ol'shanskii, Ya. I.
IONIC-ELECTRONIC LIQUIDS. [1963] 7p 2refs
Order from OTS, SLA, or ETC \$1.10 TT-63-20441

Trans. of Akademiiya Nauk SSSR, Doklady, 1950,
v. 71, no. 4, p. 701-704.

DESCRIPTORS: *Iron compounds, *Sulfides, Melting,
Crucibles, *Silicates, Solubility, Liquids, Fused
materials, Phase studies, Ions, Electrons.

(Chemistry--Physical, TT, v. 11, no. 3)

TT-63-20441

I. Ol'shanskii, Ya. I.

Office of Technical Services

Sulfur Deficiency in the Plant as a Reason for
Decline of Potato Plant, by M. I. Lepnova, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXI, 1950,
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Biological Groups Among the Kura Osster (Acipenser
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Their Artificial Culture, by N. L. Gerbilsky.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol. LXXI, no 4,
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Sci - Biol
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Moscow, 1950

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Paramagnetic Absorption in Mn and Cu
Salt Solutions"
S.A. Al'tshuler et alii

Proj # 5813

{ Requirement:
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17 July 1950
SR ~~20 Jun '50~~

Finite Representations of a Group of Unimodular Matrices,
by I. M. Gel'fand, M. L. Tsetlin, 7 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXI, 1950, pp 825-828.
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AEC-Tr-6132

Sci-Nucl Sci
Feb 64

249,548

DAL, SSSR

71, No 5 859-862 (1950)

Vaisman, I. A.

On Closed Shells of Neutrons and Protons in the
Atomic Nucleus.

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Theory of Relaxation Phenomena in Solids, by B. N.
Finkel'shteyn and N. S. Pastov, 5 pp.

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(FDD 27153)

The Solution of One General Problem in Applied
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